

Fig. 1

START - 100

Fragmentize Source Address Ranges into Non-Overlapping Segments & Assign a SASN to Each Segment - 105

Fragmentize Destination Address Ranges into Non-Overlapping Segments & Assign a DASN to Each Segment - 110

Form a Two-Dimensional Source-Destination Address Mapping Table - 115

Fragmentize Source Port Groups into Non-Overlapping Segments & Assign a SPSN to Each Segment - 120

Fragmentize Destination Port Groups into Non-Overlapping Segments & Assign a DPSN to Each Segment - 125

Form a Two-Dimensional Source-Destination Port Mapping Table - 130

Assign Policy Entry Counter in a Policy Table - 135

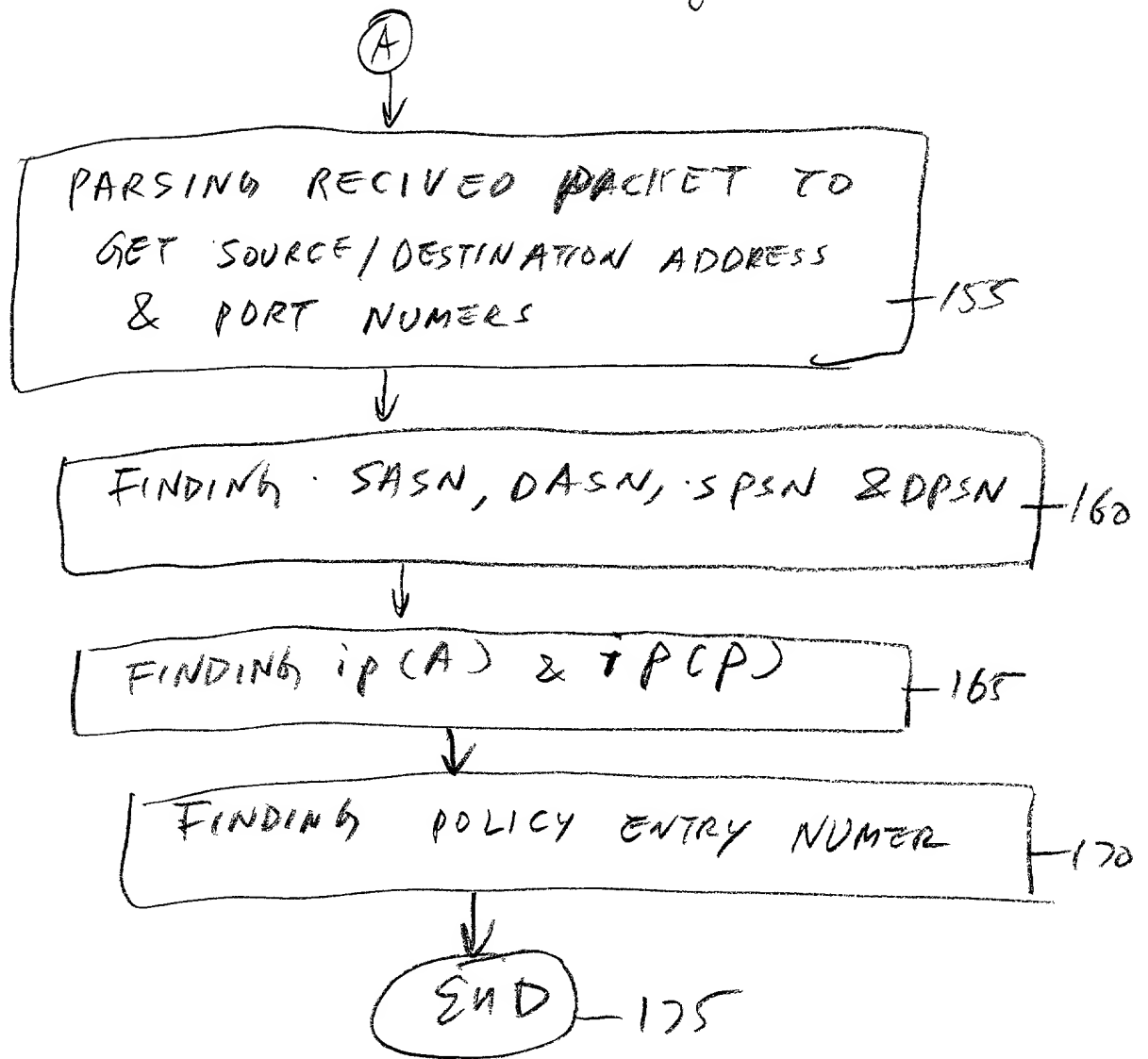
Assign Policy Entry Counter  $I_p$  into Each SDAMT & SDPMT - 140

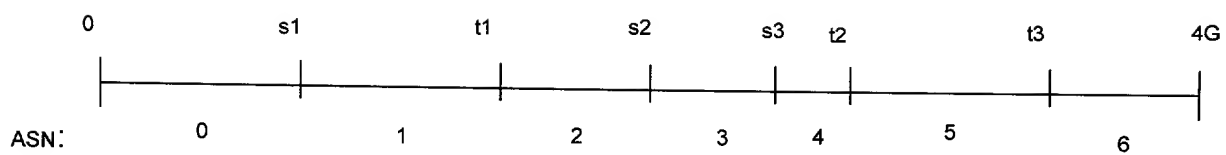
Construct Policy Index Set to Form Policy Mapping Table - 145

Construct Four Binar-Trees - 150

(A)

Fig 1 (continue)





s--Subnet start address

t--Subnet end address

ASN--Address Sequence Number

Figure 2 IP Segmentation

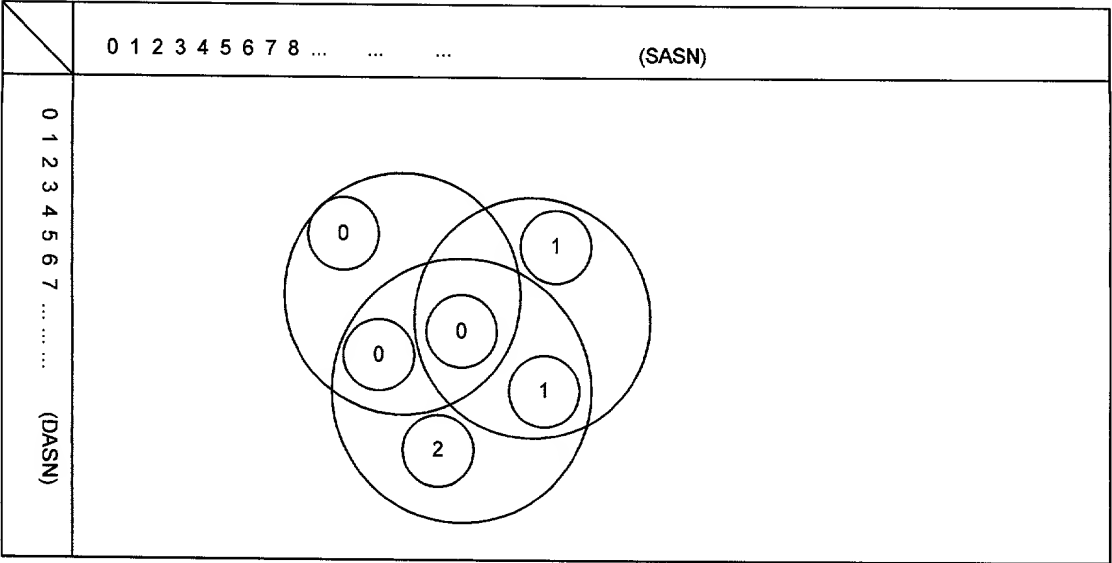


Figure 3 SDAMT-Source and Destination Address Mapping Table

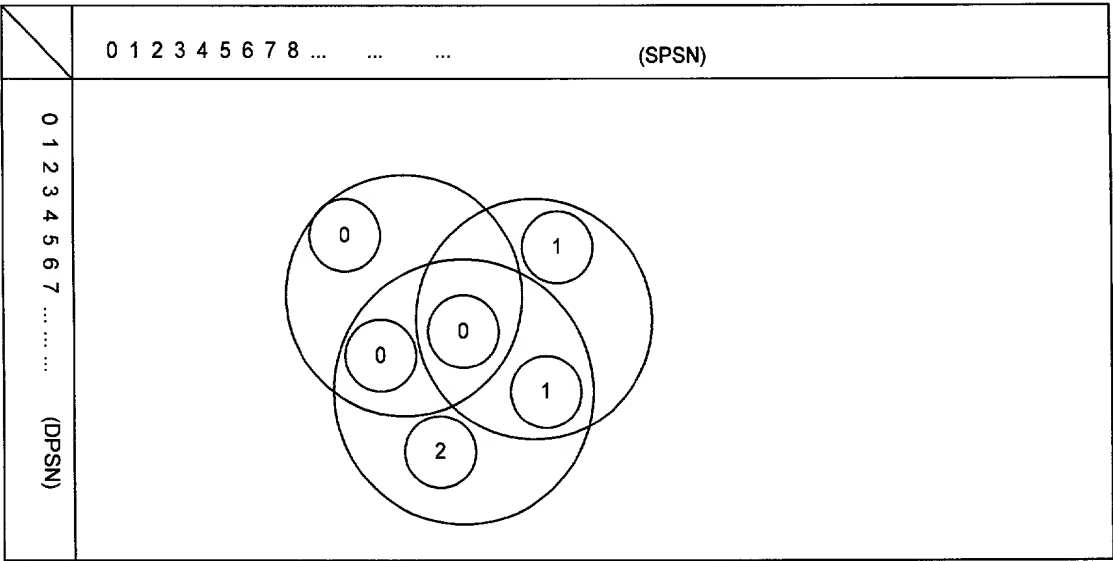


Figure 4 SDPMT-Source and Destination Port Mapping Table

Source Address Sequence Number Destination

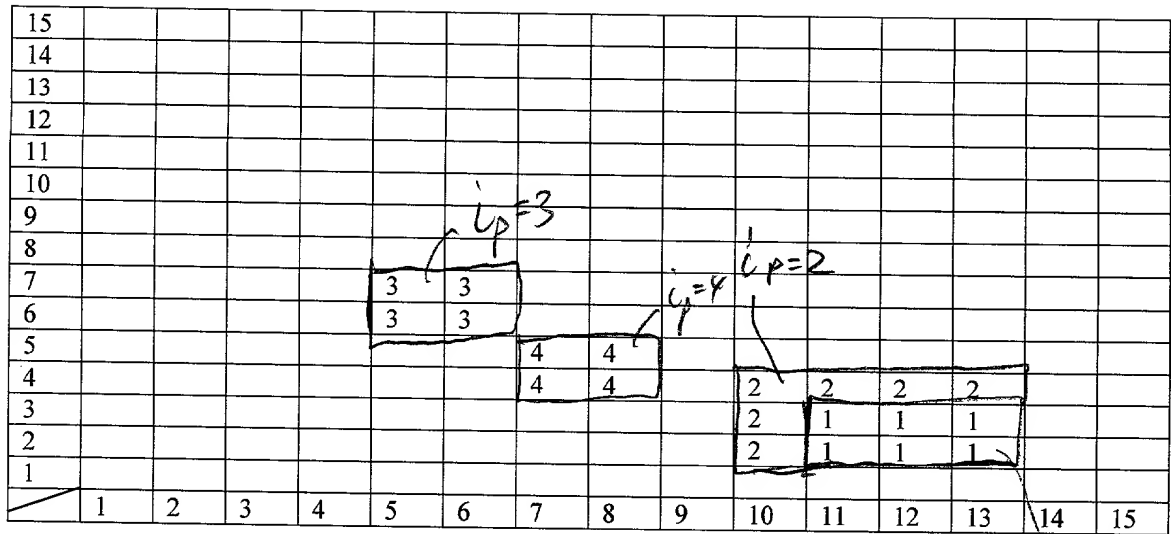


Figure. 5A

Destination Port Sequence Number

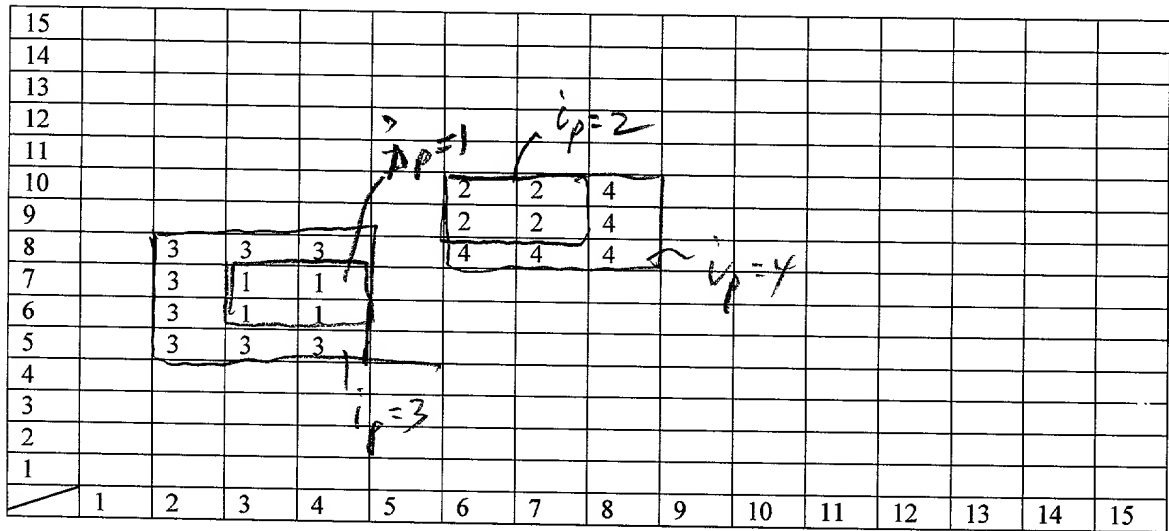


Figure. 5B

Port Mapping Number

15																
14																
13																
12																
11																
10																
9																
8																
7																
6																
5																
4				4												
3			3													
2	2	2		4												
1	1		3													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

IP Address Mapping Number

**Figure. 5C Policy Mapping Table**